

A New Species of Nabidae (Costa) from the Western United States (Hemiptera).*

By HALBERT M. HARRIS.

Nabis Iovetti, n. sp.

Oblong-ovate, yellowish brown, marked with fuscous or brown, opaque, sparsely pubescent. Head with median stripe widening anteriorly to base of tylus, two broad lateral stripes (interrupted by eyes), and broad ventral stripe (with lighter medial streak) fuscous to black; eyes reddish brown; antennae with a small brown spot on dorsal surface of segment I at about its middle, segment II at apex, and segments III and IV darker; rostrum darkened at apex.

Pronotum with a median stripe on anterior lobe black, lateral stripe on anterior lobe (on either side, seen from above) and seven stripes on posterior lobe brown, the latter sometimes obsolete; pleurites and sternites fuscous to black, bordered with reddish brown. Scutellum yellowish, a central stripe and basal angles darker. Hemelytra opaque, yellowish brown; corium with four dark spots, two on inner (the first somewhat indistinct) and two on outer vein; membrane fusco-testaceous, veins darker. Legs spotted with brown, tending to a transverse striping on sides of anterior and intermediate femora.

Abdomen above black, lighter at margin and apex; beneath yellowish brown, marked with pale crimson, a broad median stripe and two broad lateral stripes (one on either side bordering connexivum) fuscous to black. Connexivum pale, an interrupted crimson streak beneath.

Head short, broad, its length two and one-half times width at vertex; postocular part narrowed posteriorly, its length equal to distance between ocelli. Eyes large, rounded, length of one slightly less than distance between them. Antennae pubescent, about one-half as long as body, segment I shortest, its length slightly less than that of head in front of ocelli, sharply bent upward at base, thickened and slightly curved outward toward apex; II two-fifths longer than I; III slightly shorter than II; IV slightly shorter than III. Rostrum reaching past anterior coxae, segment I short, thick; II slightly longer than I of antennae; III equal to I of antennae; IV one-half shorter than II.

Pronotum sparsely pubescent, constricted slightly behind the middle, distinctly wider than long, the posterior lobe smooth. Scutellum broader than long. Hemelytra evenly and rather thickly clothed with short recumbent pubescence, the veins prominent. Legs of moderate length; fore femora strongly

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incrassate, densely clothed beneath with short hairs; intermediate femora moderately incrassate, armed beneath with short, outwardly slanting, piceous, spine-like setae and long hairs. Tibiae enlarged slightly at their apices, beset with stiff setae.

Abdomen beneath clothed with short pubescence and long hairs, the latter arising from near the apical margins of the segments. Connexivum sharply set off from abdomen.

♂: Genital segment large, strongly concave laterally, bilobed at apex, bearing on either side underneath a short, stout, pointed, tooth-like tubercle. Clasper with short narrow stem and long, curved, lance-like blade that ends in a sharp, upward-bending point.

♀: Last segment of venter slightly depressed on either side of broad median stripe, median part (as wide as stripe) produced posteriorly, covering base of ovipositor and slightly emarginate. Genital segments short, slightly swollen.

Brachypterous form: Hemelytra reaching scarcely to apex of abdomen; membrane small, elongate, rather sharply rounded at apex, veins prominent. Posterior lobe of pronotum flat. Length: ♂, 7.5 mm., ♀, 7 mm.

Macropterous form: Hemelytra reaching beyond apex of abdomen; membrane large, with three elongate cells. Hamus of wing cell arising from connecting vein. Pronotum larger, broader, slightly emarginate at base, and the posterior lobe arched. Length: ♂, unknown, ♀, 8.8 mm.

Holotype: Brachypterous male, Ingleside, California, Dec. 20, 1920, Henry Dietrich collector, in my collection. *Allotype* and *paratype*: brachypterous females, same label as holotype, in collection of Dr. H. H. Knight. *Morphotype*: macropterous female, Corvallis, Oregon, 1918, Professor A. L. Lovett collector, in my collection. *Paramorphotypes*: macropterous female, same label as morphotype, and macropterous female, Carmel, Monterey County, California, June 27, 1922, in collection of Dr. C. J. Drake and Dr. H. H. Knight.

This species is quite distinct from any hitherto described American Nabid. It has been determined in collections as *Nabis flavomarginatus* var. *vanduzeei* Scholtz from which it differs, however, in its more brownish coloring, pubescent hemelytra, shorter antennae, shorter postocular portion of head, and especially in structure of genital segment of male and female, and copulatory hooks of male. It is named in honor of the late Professor A. L. Lovett who collected the first specimen of the type series.